



# MAJOR SOURCE OPERATING PERMIT

**PERMITTEE:** NSSG HOLDINGS, LLC

**FACILITY NAME:** SCOTCH GULF LUMBER, LLC - FULTON

**FACILITY/PERMIT NO.:** 102-S003

**LOCATION:** FULTON, CLARKE COUNTY, ALABAMA

*In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.*

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

**Issuance Date:** DRAFT

**Effective Date:** DRAFT

**Expiration Date:** October 23, 2025

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General Permit Provisos	
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<p><b>1. <u>Transfer</u></b></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in ADEM Admin. Code r. 335-3-16-.13(1)(a)5.</p>	<p>ADEM Admin. Code r. 335-3-16-.02(6)</p>
<p><b>2. <u>Renewals</u></b></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p>	<p>ADEM Admin. Code r. 335-3-16-.12(2)</p>
<p><b>3. <u>Severability Clause</u></b></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivisions, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(e)</p>
<p><b>4. <u>Compliance</u></b></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(f)</p> <p>ADEM Admin. Code r. 335-3-16-.05(g)</p>

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<p><b>5. <u>Termination for Cause</u></b></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(h)</p>
<p><b>6. <u>Property Rights</u></b></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(i)</p>
<p><b>7. <u>Submission of Information</u></b></p> <p>The permittee must submit to the Air Division, within 30 days or for such other reasonable time as the Air Division may set, any information that the Air Division may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Air Division copies of records required to be kept by this permit.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(j)</p>
<p><b>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></b></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(k)</p>
<p><b>9. <u>Certification of Truth, Accuracy, and Completeness</u></b></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	<p>ADEM Admin. Code r. 335-3-16-.07(a)</p>
<p><b>10. <u>Inspection and Entry</u></b></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p>	<p>ADEM Admin. Code r. 335-3-16-.07(b)</p>

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<p>(a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;</p> <p>(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;</p> <p>(c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;</p> <p>(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.</p> <p><b>11. Compliance Provisions</b></p> <p>(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.</p> <p>(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.</p> <p><b>12. Compliance Certification</b></p> <p>The permittee shall submit a complete and accurate compliance certification by <b>December 22<sup>nd</sup></b> of each year for each annual reporting period of this permit (October 24<sup>th</sup> through October 23<sup>rd</sup>).</p> <p>(a) The compliance certification shall include the following:</p> <p>(i) The identification of each term or condition of this permit that is the basis of the certification;</p> <p>(ii) The compliance status;</p> <p>(iii) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with ADEM Admin. Code r. 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);</p> <p>(iv) Whether compliance has been continuous or intermittent;</p> <p>(v) Such other facts as the Air Division may require to determine the compliance status of the source;</p> <p>(b) The compliance certification shall be submitted to:</p>	<p>ADEM Admin. Code r. 335-3-16-.07(c)</p> <p>ADEM Admin. Code r. 335-3-16-.07(e)</p>

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<p>Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p>and to:</p> <p>Enforcement and Compliance Assurance Division EPA Region 4 Atlanta Federal Center 61 Forsyth Street, SW Atlanta, GA 30303</p> <p><b>13. Reopening for Cause</b></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.</p> <p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p> <p><b>14. Additional Rules and Regulations</b></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p>	<p>ADEM Admin. Code r. 335-3-16-.13(5)</p> <p>§22-28-16(d), <u>Code of Alabama 1975</u>, as amended</p>

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<b>15. <u>Equipment Maintenance or Breakdown</u></b>	
<p>(a) In case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Air Division at least (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <ul style="list-style-type: none"> <li>(i) Identification of the specific facility to be taken out of service as well as its location and permit number;</li> <li>(ii) The expected length of time that the air pollution control equipment will be out of service;</li> <li>(iii) The nature and quality of emissions of air contaminants likely to occur during the shutdown period;</li> <li>(iv) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;</li> <li>(v) The reasons that it would be impossible or impractical to shut down the sources operation during the maintenance period.</li> </ul> <p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p>	<p>ADEM Admin. Code r. 335-3-1-.07(1),(2)</p>
<b>16. <u>Operation of Capture and Control Devices</u></b>	
<p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), <u>Code of Alabama 1975</u>, as amended</p>



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<p><b>17. <u>Obnoxious Odors</u></b></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>ADEM Admin. Code r. 335-3-1-.08</p>
<p><b>18. <u>Fugitive Dust</u></b></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds shall be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <p>(i) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</p> <p>(ii) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p> <p>(iii) By paving;</p> <p>(iv) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions.</p> <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Air Division prior to utilization.</p>	<p>ADEM Admin. Code r. 335-3-4-.02</p>
<p><b>19. <u>Additions and Revisions</u></b></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>ADEM Admin. Code r. 335-3-16-.13 and 335-3-16-.14</p>

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<b>20. <u>Recordkeeping Requirements</u></b>	
<p>(a) Records of required monitoring information of the source shall include the following:</p> <ul style="list-style-type: none"> <li>(i) The date, place, and time of all sampling or measurements;</li> <li>(ii) The date analyses were performed;</li> <li>(iii) The company or entity that performed the analyses;</li> <li>(iv) The analytical techniques or methods used;</li> <li>(v) The results of all analyses; and</li> <li>(vi) The operating conditions that existed at the time of sampling or measurement.</li> </ul> <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit.</p>	ADEM Admin. Code r. 335-3-16-.05(c)2.
<b>21. <u>Reporting Requirements</u></b>	
<p>(a) Reports to the Air Division of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with ADEM Admin. Code r. 335-3-16-.04(9).</p> <p>(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report shall include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p>	ADEM Admin. Code r. 335-3-16-.05(c)3.
<b>22. <u>Emission Testing Requirements</u></b>	
Each point of emission which requires testing shall be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.	ADEM Admin. Code r. 335-3-1-.05(3) and 335-3-1-.04(1)

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<p>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <ul style="list-style-type: none"> <li>(a) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.</li> <li>(b) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures requires probe cleaning).</li> <li>(c) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.</li> <li>(d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.</li> </ul> <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p> <p><b>23. <u>Payment of Emission Fees</u></b></p> <ul style="list-style-type: none"> <li>(a) The permittee shall submit the annual Operating Permit Fees required by ADEM Admin Code r. 335-1-7-.04 according to the schedule in ADEM Admin Code r. 335-1-7-.05.</li> <li>(b) The permittee shall submit its estimate of actual emissions for the previous calendar year according to the schedule in ADEM Admin. Code r. 335-1-7-.05.</li> </ul>	<p>ADEM Admin. Code r. 335-3-1-.04</p> <p>ADEM Admin. Code r. 335-3-1-.04</p> <p>ADEM Admin. Code r. 335-1-7-.04</p> <p>ADEM Admin. Code r. 335-1-7-.05</p>

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<p><b><u>24. Other Reporting and Testing Requirements</u></b></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p> <p><b><u>25. Title VI Requirements (Refrigerants)</u></b></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR § 82.166. Reports shall be submitted to the US EPA and the Department as required.</p> <p><b><u>26. Chemical Accidental Prevention Provisions</u></b></p> <p>If a chemical listed in Table 1 of 40 CFR § 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <p>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.</p> <p>(b) The owner or operator shall submit one of the following:</p> <p>(i) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a) or,</p> <p>(ii) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.</p> <p><b><u>27. Display of Permit</u></b></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and shall make the permit readily available for inspection by any or all persons who may request to see it.</p>	<p>ADEM Admin. Code r. 335-3-1-.04(1)</p> <p>ADEM Admin. Code r. 335-3-16-.05(a)</p> <p>40 CFR Part 68</p> <p>ADEM Admin. Code r. 335-3-14-.01(1)(d)</p>

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<p><b>28. <u>Circumvention</u></b></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in the reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	<p>ADEM Admin. Code r. 335-3-1-.10</p>
<p><b>29. <u>Visible Emissions</u></b></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	<p>ADEM Admin. Code r. 335-3-4-.01(1)</p>
<p><b>30. <u>Fuel-Burning Equipment</u></b></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-4-.03.</p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-5-.01.</p>	<p>ADEM Admin. Code r. 335-3-4-.03</p> <p>ADEM Admin. Code r. 335-3-5-.01</p>
<p><b>31. <u>Process Industries – General</u></b></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-4-.04.</p>	<p>ADEM Admin. Code r. 335-3-4-.04</p>
<p><b>32. <u>Averaging Time for Emission Limits</u></b></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p>
<p><b>33. <u>Open Burning</u></b></p> <p>Precautions should be taken to ensure that no person shall ignite, cause to ignite, permit to be ignited, or maintain any open fire in such a manner as to cause the Department's rules and regulations applicable to open burning to be violated.</p>	<p>ADEM Admin. Code r. 335-3-3-.01</p>

## Emission Unit No. 001 (98.5 MMBtu/hr Wellons Wood-fired Boiler)

### Summary Page

**Description:** 98.5 MMBtu/hr Wellons wood-fired boiler with multiclone

**Permitted Operating Schedule:**  $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{7 \text{ Days}}{\text{Week}} \times \frac{52 \text{ Weeks}}{\text{Year}} = \frac{8,760 \text{ Hours}}{\text{Year}}$

**Emission limitations:**

Emission Point No.	Description	Pollutant	Emission limit	Regulation
001	Boiler exhaust	TSP	0.20 gr/dscf @ 50% Excess Air	ADEM Admin. Code r. 335-3-4-.08 (SIP)
		Filterable PM or (TSM)	4.4E <sup>-01</sup> lb per MMBtu of heat input; or (4.5E <sup>-04</sup> lb per MMBtu of heat input) or 5.5E <sup>-01</sup> lb per MMBtu of steam output; or (5.7E <sup>-04</sup> lb per MMBtu of steam output)	ADEM Admin. Code r. 335-3-11-.06 (107) 40 CFR Part 63, Subpart DDDDD
		SO <sub>2</sub>	4.0 lbs/MMBtu heat input	ADEM Admin. Code r. 335-3-5-.01 (SIP)
		CO (or CEMS)	3,500 ppm by volume on a dry basis corrected to 3 percent oxygen, 3-run average; or (900 ppm by volume on a dry basis corrected to 3 percent oxygen, 30 day rolling average)	ADEM Admin. Code r. 335-3-11-.06 (107) 40 CFR Part 63, Subpart DDDDD
		NO <sub>x</sub>	N/A	N/A
		VOC	N/A	N/A
		HCl	2.2E <sup>-02</sup> lb per MMBtu of heat input or 2.5E <sup>-02</sup> lb per MMBtu of steam output	ADEM Admin. Code r. 335-3-11-.06 (107) 40 CFR Part 63, Subpart DDDDD
		Hg	5.7E <sup>-06</sup> lb per MMBtu of heat input or 6.4E <sup>-06</sup> lb per MMBtu of steam output	ADEM Admin. Code r. 335-3-11-.06 (107) 40 CFR Part 63, Subpart DDDDD
		HAP	N/A	N/A

**Emission Unit No. 001 (98.5 MMBtu/hr Wellons Wood-fired Boiler)**

**Unit Specific Provisos**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<p><b>1. <u>Applicability</u></b></p> <p>(a) This boiler is subject to the applicable requirements of ADEM Admin. Code r. 335316.03, "Major Source Operating Permits."</p> <p>(b) This boiler is subject to the applicable requirements of the National Emission Standards for Hazardous Air Pollutants 40 CFR Part 63, Subpart DDDDD, the NESHAP for Industrial/Commercial/Institutional Boiler and Process Heaters at major sources, and to the NESHAP General Provisions, 40 CFR Part 63, Subpart A, as provided in 40 CFR Part 63.7565 and Table 10 of Subpart DDDDD. This boiler is defined in §§63.7490 and 63.7575 as an existing Hybrid Suspension Grate Boiler designed to burn biomass/bio-based solids.</p>	<p>ADEM Admin. Code r. 335-3-16-.03</p> <p>ADEM Admin. Code r. 335-3-11-.06 (107)</p> <p>40 CFR Part 63, Subpart DDDDD</p>
<p><b>2. <u>Emission Standards</u></b></p> <p>(a) The permittee shall not cause or allow emissions of TSP from this boiler to exceed 0.20 grains per dry standard cubic foot (gr/dscf), adjusted to fifty percent (50%) excess air.</p> <p>(b) The permittee shall not cause or allow emissions of sulfur dioxide from this boiler to exceed 4.0 lbs/MMBtu of heat input.</p> <p>(c) Except during startups and load changes (defined below), the permittee shall not cause or allow the discharge of more than one 6-minute average opacity greater than 20% in any 60-minute period from this boiler. At no time shall the permittee cause or allow the discharge of a 6-minute average opacity of particulate emissions greater than 40%.</p> <p><i>Startups</i> – the sixty (60) minute period following the initial ignition of the fuel in the boiler firebox</p> <p><i>Load Changes</i> - the fifteen (15) minute period following an initial demand for process steam when the boiler is at low-fire. Low-fire is defined as the condition when the boiler is operating at a minimal firing rate and providing no steam to any process.</p> <p>(d) The permittee shall only use untreated wood/biomass to fire the boiler. Approval must be received from the Air Division prior to burning any other type of fuel.</p>	<p>ADEM Admin. Code r. 33534.08(2)(d)</p> <p>ADEM Admin. Code r. 335-3-5-.01(1)(b)</p> <p>ADEM Admin. Code r. 335-3-4-.01</p> <p>ADEM Admin. Code r. 335-3-16-.05(a)</p>

Federally Enforceable Provisos	Regulations
<p>(e) The permittee shall not cause or allow the point source emissions from this boiler to exceed any of the following limitations, except as provided under 40 CFR §63.7522 and during startup and shutdown, as required by 40 CFR §63.7500, and 40 CFR 63 Subpart DDDDD, Table 2. Each emission result should be from measurements made in accordance with the requirements on 40 CFR § 63.7520 and 40 CFR 63 Subpart DDDDD, Table 5:</p> <p>(i) Hydrogen Chloride (HCl) – <math>2.2E^{-02}</math> lb per MMBtu of heat input or <math>2.5E^{-02}</math> lb per MMBtu of steam output;</p> <p>(ii) Mercury (Hg) – <math>5.7E^{-06}</math> lb per MMBtu of heat input or <math>6.4E^{-06}</math> lb per MMBtu of steam output;</p> <p>(iii) Carbon Monoxide (CO) [or CEMS] – 3,500 ppm by volume on a dry basis corrected to 3 percent oxygen, 3-run average; or 900 ppm by volume on a dry basis corrected to 3 percent oxygen, 30 day rolling average; and</p> <p>(iv) Filterable Particulate Matter (PM) or [TSM] – <math>4.4E^{-01}</math> lb per MMBtu of heat input; or <math>(4.5E^{-04})</math> lb per MMBtu of heat input) or <math>5.5E^{-01}</math> lb per MMBtu of steam output; or <math>(5.7E^{-04})</math> lb per MMBtu of steam output).</p>	<p>ADEM Admin. Code r. 335-3-11-.06 (107)</p>
<p><b>3. <u>Compliance and Performance Test Methods and Procedures</u></b></p> <p>(a) If testing is required, the particulate matter (as TSP) emission rate shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 5, or as otherwise required or approved. An alternative test method may be utilized provided prior approval is granted by the Air Division.</p> <p>(b) If testing is required, the sulfur dioxide emission rate shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 6, or as otherwise required or approved. An alternative test method may be utilized provided prior approval is granted by the Air Division.</p> <p>(c) If testing is required, the volatile organic compound emission rate shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 25A, or as otherwise required or approved.</p> <p>(d) If testing is required, the carbon monoxide emission rate shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 10, or as otherwise required or approved.</p> <p>(e) If testing is required, the nitrogen oxide emission rate shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 7, 7A, 7B, or 7E, or as otherwise required or approved.</p>	<p>ADEM Admin. Code r. 33531.05</p> <p>ADEM Admin. Code r. 33531.05</p> <p>ADEM Admin. Code r. 33531.05</p> <p>ADEM Admin. Code r. 33531.05</p> <p>ADEM Admin. Code r. 33531.05</p>



Federally Enforceable Provisos	Regulations
(f) Opacity of stack emissions shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9, or as otherwise required or approved.	ADEM Admin. Code r. 33531.05
(g) The permittee shall maintain a minimum of two (2) personnel trained to determine visible emissions in accordance with 40 CFR Part 60, Appendix A, Method 9.	ADEM Admin. Code r. 335-3-1-.05
(h) In accordance with 40 CFR §63.7515, the permittee must conduct all applicable performance tests according to 40 CFR §63.7520 on an annual basis, except as specified in 40 CFR §63.7515(b) through (e), and (g). Annual performance tests must be completed no more than 13 months after the previous performance test, except as specified in 40 CFR §63.7515(b) through (e), and (g).	ADEM Admin. Code r. 335-3-11-.06 (107)
(i) In accordance with 40 CFR §63.7515(f), the permittee must report the results of performance tests and the associated fuel analyses within 60 days after the completion of the performance tests. This report must also verify that the operating limits for each boiler or process heater have not changed or provide documentation of revised operating limits established according to 40 CFR §63.7530 and Table 7 to Subpart DDDDD, as applicable. The reports for all subsequent performance tests must include all applicable information required in 40 CFR §63.7550.	ADEM Admin. Code r. 335-3-11-.06 (107)
(j) In accordance with 40 CFR §63.7515(i), if the permittee operates a CO CEMS that meets the Performance Specifications outlined in 40 CFR §63.7525(a)(3) to demonstrate compliance with the applicable alternative CO CEMS emission standard listed in Tables 1, 2, or 11 through 13 to Subpart DDDDD, you are not required to conduct CO performance tests and are not subject to the oxygen concentration operating limit requirement specified in 40 CFR §63.7510(a).	ADEM Admin. Code r. 335-3-11-.06 (107)
(k) In accordance with 40 CFR §63.7540(a), the permittee must demonstrate continuous compliance with each emission limit in Tables 1 and 2 or 11 through 13, the work practice standards in Table 3, and the operating limits in Table 4 that applies according to the methods specified in Table 8 to Subpart DDDDD and 40 CFR §63.7540(a).	ADEM Admin. Code r. 335-3-11-.06 (107)
(l) In accordance with 40 CFR §63.7540(d), for startup and shutdown, the permittee must meet the work practice standards according to items 5 and 6 of Table 3 of Subpart DDDDD.	ADEM Admin. Code r. 335-3-11-.06 (107)

Federally Enforceable Provisos	Regulations
<p>(m) In accordance with 40 CFR §63.7541, following the compliance date, the permittee must demonstrate compliance with Subpart DDDDD on a continuous basis by meeting the requirements in 40 CFR §63.7541(a). Any instance where the permittee fails to comply with the continuous monitoring requirements in 40 CFR §63.7541(a) is considered a deviation.</p> <p>(n) If the permittee should switch subcategories consistent with Emission Unit Specific Proviso No. 5(c) and 40 CFR §63.7545(h) after the initial compliance date, you must demonstrate compliance within 60 days of the effective date of the switch, unless you had previously conducted your compliance demonstration for this subcategory within the previous 12 months.</p>	<p>ADEM Admin. Code r. 335-3-11-.06 (107)</p> <p>ADEM Admin. Code r. 335-3-11-.06 (107)</p>
<p><b>4. <u>Emission Monitoring</u></b></p>	
<p>(a) On any weekday (Monday through Friday) that the boiler is operated, a certified observer shall conduct a daily six-minute observation of the boiler stack emissions in accordance with 40 CFR 60, Appendix A, Method 9.</p>	<p>ADEM Admin. Code r. 33531.05(c)</p>
<p>(b) On any weekend day (Saturday or Sunday) that the boiler is operated, an observer familiar with the operation of the boiler shall conduct a daily observation of the boiler stack emissions during daylight hours while the boiler is operating.</p>	<p>ADEM Admin. Code r. 33531.05(c)</p>
<p>(c) If a weekday observation indicates visible emissions from a six-minute average are greater than 15% opacity or if a weekend observation indicates visible emissions are greater than normal, the permittee shall take immediate corrective action to reduce the visible emissions within 24 hours or verify within 24 hours that the boiler has resumed normal operation, in accordance with standard procedures, and under the same conditions in which compliance was achieved in the past.</p>	<p>ADEM Admin. Code r. 33531.05(c)</p>
<p>(d) The permittee must meet each work practice standard as required by 40 CFR §63.7500, and Subpart DDDDD, Table 3 that apply to this boiler.</p>	<p>ADEM Admin. Code r. 335-3-11-.06 (107)</p>
<p>(e) In accordance with 40 CFR §63.7535, the permittee must monitor and collect data according to 40 CFR §63.7535(b) through (d) and the site-specific monitoring plan required by 40 CFR §63.7505(d).</p>	<p>ADEM Admin. Code r. 335-3-11-.06 (107)</p>
<p><b>5. <u>Recordkeeping and Reporting Requirements</u></b></p>	
<p>(a) The permittee shall maintain the following records for this emission unit in a permanent form and readily available for inspection for at least five (5) years from the date of generation of each record:</p>	<p>ADEM Admin. Code r. 335-3-16-.07(c)</p>



Federally Enforceable Provisos	Regulations
<p>(iii) The date upon which the fuel switch or physical change occurred.</p> <p>(d) In accordance with 40 CFR §63.7540(b), the permittee must report each instance in which you did not meet each emission limit and operating limit in Tables 1 through 4 or 11 through 13 to Subpart DDDDD that apply to you. These instances are deviations from the emission limits or operating limits, respectively, in this subpart. These deviations must be reported according to the requirements in 40 CFR §63.7550.</p> <p>(e) In accordance with 40 CFR §63.7545(d), the permittee must submit a Notification of Intent to conduct a performance test, if required, at least 60 days before the performance test is scheduled to begin.</p> <p>(f) In accordance with 40 CFR §63.7545(e), the permittee must submit a Notification of Compliance Status according to 40 CFR §63.9(h)(2)(ii). For the initial compliance demonstration for the boiler, you must submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance test and/or other initial compliance demonstrations for all boiler or process heaters at the facility according to 40 CFR §63.10(d)(2). The Notification of Compliance Status report must contain all the information specified in 40 CFR §63.7545(e), as applicable.</p> <p>(g) In accordance with 40 CFR §63.7550(a), the permittee must submit a compliance report as described in Table 9 to Subpart DDDDD.</p> <p>(h) In accordance with 40 CFR §63.7550(b), the permittee must submit each semi-annual report, according to 40 CFR §63.7550(h), by the date in Table 9 to Subpart DDDDD and according to the requirements in 40 CFR §63.7550(b)(1) through (4).</p> <p>(i) In accordance with 40 CFR §63.7550(c), compliance reports completed by the permittee must contain all required information in 40 CFR §63.7550(c)(1) through (4).</p> <p>(j) In accordance with 40 CFR §63.7550(d), for each deviation from an emission limit or operating limit in this subpart that occurs at an individual boiler where you are not using a CMS to comply with that emission limit or operating limit, or from the work practice standards for periods of startup and shutdown, the compliance report completed by the permittee must additionally contain the information required in 40 CFR §63.7550(d)(1) through (3).</p>	<p>ADEM Admin. Code r. 335-3-11-.06 (107)</p> <p>ADEM Admin. Code r. 335-3-11-.06 (107)</p> <p>ADEM Admin. Code r. 335-3-11-.06 (107)</p> <p>ADEM Admin. Code r. 335-3-11-.06 (107)</p> <p>ADEM Admin. Code r. 335-3-11-.06 (107)</p> <p>ADEM Admin. Code r. 335-3-11-.06 (107)</p> <p>ADEM Admin. Code r. 335-3-11-.06 (107)</p>

Federally Enforceable Provisos	Regulations
<b>(k)</b> In accordance with 40 CFR §63.7550(e), for each deviation from an emission limit, operating limit, and monitoring requirement in this subpart occurring at an individual boiler where you are using a CMS to comply with that emission limit or operating limit, the compliance report completed by the permittee must additionally contain the information required in 40 CFR §63.7550(e)(1) through (9). This includes any deviations from your site-specific monitoring plan as required in 40 CFR §63.7505(d).	ADEM Admin. Code r. 335-3-11-.06 (107)
<b>(l)</b> In accordance with 40 CFR §63.7555(a), the permittee must keep a copy of each notification and report that you submitted to comply with Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in 40 CFR §63.10(b)(2)(xiv). Also, the permittee must keep records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR §63.10(b)(2)(viii).	ADEM Admin. Code r. 335-3-11-.06 (107)
<b>(m)</b> In accordance with 40 CFR §63.7555(b), for each CEMS, COMS, and continuous monitoring system the permittee must keep records according to 40 CFR §63.7555(b)(1) through (5).	ADEM Admin. Code r. 335-3-11-.06 (107)
<b>(n)</b> In accordance with 40 CFR §63.7555(c), the permittee must keep the records required in Table 8 to Subpart DDDDD including records of all monitoring data and calculated averages for applicable operating limits, such as opacity, pressure drop, pH, and operating load, to show continuous compliance with each emission limit and operating limit that applies to you.	ADEM Admin. Code r. 335-3-11-.06 (107)
<b>(o)</b> In accordance with 40 CFR §63.7555(d), for the boiler subject to an emission limit in Tables 1, 2, or 11 through 13 to Subpart DDDDD, the permittee must also keep the applicable records in 40 CFR §63.7555(d)(1) through (11).	ADEM Admin. Code r. 335-3-11-.06 (107)
<b>(p)</b> In accordance with 40 CFR §63.7560(b), as specified in 40 CFR §63.10(b)(1), the permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	ADEM Admin. Code r. 335-3-11-.06 (107)
<b>(q)</b> In accordance with 40 CFR §63.7560(c), the permittee must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §63.10(b)(1). You can keep the records off site for the remaining 3 years.	ADEM Admin. Code r. 335-3-11-.06 (107)

## Emission Unit Nos. 002-004 (Dry Kiln Nos. 1-3)

### Summary Page

**Description:** Three steam-heated lumber dry kilns (70.2, 140.4, and 112.32 MBF)

**Permitted Operating Schedule:**  $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{7 \text{ Days}}{\text{Week}} \times \frac{52 \text{ Weeks}}{\text{Year}} = \frac{8,760 \text{ Hours}}{\text{Year}}$

### Emission limitations:

Emission Point No.	Description	Pollutant	Emission limit	Regulation
002-004	Kiln roof vents	TSP	$E=3.59P^{0.62}$ <b>or</b> $E=17.31P^{0.16}$	ADEM Admin. Code r. 335-3-4-.04 (SIP)
		VOC	N/A	N/A
		HAP	N/A	N/A

**Emission Unit Nos. 002-004 (Dry Kiln Nos. 1-3)****Unit Specific Provisos**

<b>Federally Enforceable Provisos</b>	<b>Regulations</b>
<b>1. <u>Applicability</u></b>  (a) These units are subject to the applicable requirements of ADEM Admin. Code r. 335316.03, "Major Source Operating Permits."  (b) These units are subject to the applicable requirements of 40 CFR Part 63, Subpart DDDD, National Emission Standards for Hazardous Air Pollutants for Plywood and Composite Wood Products, and the applicable requirements of 40 CFR Part 63, Subpart A, General Provisions as provided in Table 10 to Subpart DDDD.	ADEM Admin. Code r. 335316.03  ADEM Admin. Code r. 335-3-11-.06(81); 40 CFR Part 63, Subpart DDDD
<b>2. <u>Emission Standards</u></b>  The permittee shall not cause or allow the emission of particulate matter in any one hour from each unit in excess of the amount determined by the following applicable equation:  $E = 3.59P^{0.62} \quad (P < 30 \text{ tons per hour}) \quad \text{or}$ $E = 17.31P^{0.16} \quad (P \geq 30 \text{ tons per hour})$ where $E$ = Emissions in pounds per hour  $P$ = Process weight per hour in tons per hour.	ADEM Admin. Code r. 33534.04(1)
<b>3. <u>Compliance and Performance Test Methods and Procedures</u></b>  (a) If testing is required, the particulate emission rate shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 5. An alternative test method may be utilized provided prior approval is granted by the Air Division.  (b) If testing is required, the volatile organic compound emission rate shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 25A. An alternative test method may be utilized provided prior approval is granted by the Air Division.  (c) Any compliance or performance test required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which he has determined to be adequate for indicating whether a specific source is in compliance.	ADEM Admin. Code r. 33531.05  ADEM Admin. Code r. 33531.05  ADEM Admin. Code r. 33531.05
<b>4. <u>Emission Monitoring</u></b>  There are no unit specific emission monitoring requirements applicable to these units.	ADEM Admin. Code r. 335-3-16-.05(c)

Federally Enforceable Provisos	Regulations
<p><b>5. <u>Recordkeeping and Reporting Requirements</u></b></p> <p>There are no unit specific recordkeeping and reporting requirements applicable to these units.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p>



## Emission Unit No. 006 (Green Sawdust Fuel Silo)

### Summary Page

**Description:** Green Fuel Silo with Pneumatic Conveyance System to a Cyclone

**Permitted Operating Schedule:**  $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{7 \text{ Days}}{\text{Week}} \times \frac{52 \text{ Weeks}}{\text{Year}} = \frac{8,760 \text{ Hours}}{\text{Year}}$

### Emission limitations:

Emission Point No.	Description	Pollutant	Emission limit	Regulation
CYC-1	Green Fuel Silo Cyclone	TSP	$E=3.59P^{0.62}$ <b>or</b> $E=17.31P^{0.16}$	ADEM Admin. Code r. 335-3-4-.04 (SIP)
			0.9 lb/hr	ADEM Admin. Code r. 335-3-14-.04
		PM 10	0.0133 lb/hr	ADEM Admin. Code r. 335-3-14-.04
		PM 2.5	0.0009 lb/hr	ADEM Admin. Code r. 335-3-14-.04
		VOC	N/A	N/A
		HAP	N/A	N/A

**Emission Unit No. 006 (Green Sawdust Fuel Silo)**

**Unit Specific Provisos**

Federally Enforceable Provisos	Regulations
<p><b>1. <u>Applicability</u></b></p> <p>(a) This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "Major Source Operating Permits."</p> <p>(b) This unit is subject to synthetic minor source limits to restrict its potential to emit below the significant emission rates for TSP, PM10 and PM2.5 established at ADEM Admin. Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration Permitting (PSD))."</p> <p><b>2. <u>Emission Standards</u></b></p> <p>(a) The permittee shall not cause or allow the emission of particulate matter in any one hour from each unit in excess of the amount determined by the following applicable equation:</p> $E = 3.59P^{0.62} \quad (P < 30 \text{ tons per hour}) \quad \text{or}$ $E = 17.31P^{0.16} \quad (P \geq 30 \text{ tons per hour})$ <p>where <math>E</math> = Emissions in pounds per hour</p> <p><math>P</math> = Process weight per hour in tons per hour.</p> <p>(b) The Permittee shall not cause or allow these sources of particulate emissions to discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall these sources discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9.</p> <p>(c) The Permittee shall not cause or allow the particulate matter emission rate (TSP) from the cyclone exhaust to exceed 0.9 lb/hr, as measured in accordance with 40 CFR Part 60, Appendix A, Method 5. Alternate test methods may be used provided prior approval by the Air Division is granted.</p> <p>(d) The Permittee shall not cause or allow the particulate matter emission rate (PM<sub>10</sub>) from the cyclone exhaust to exceed 0.0133 lb/hr, as measured in accordance with 40 CFR Part 60, Appendix A, Method 5. Alternate test methods may be used provided prior approval by the Air Division is granted.</p>	<p>ADEM Admin. Code r. 335-3-16-.03</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-4-.04(1)</p> <p>ADEM Admin. Code r. 335-3-4-.01</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>

Federally Enforceable Provisos	Regulations
<p>(e) The Permittee shall not cause or allow the particulate matter emission rate (PM<sub>2.5</sub>) from the cyclone exhaust to exceed 0.0009 lb/hr, as measured in accordance with 40 CFR Part 60, Appendix A, Method 5. Alternate test methods may be used provided prior approval by the Air Division is granted.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p>
<p><b>3. <u>Compliance and Performance Test Methods and Procedures</u></b></p> <p>(a) If testing is required, the particulate emission rate shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 5. An alternative test method may be utilized provided prior approval is granted by the Air Division.</p> <p>(b) If testing is required, the volatile organic compound emission rate shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 25A. An alternative test method may be utilized provided prior approval is granted by the Air Division.</p> <p>(c) Any compliance or performance test required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which he has determined to be adequate for indicating whether a specific source is in compliance.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-1-.05</p>
<p><b>4. <u>Emission Monitoring</u></b></p> <p>(a) While the process is operating, someone familiar with the process shall visually observe the cyclone exhaust at least <u>weekly</u> during daylight hours for greater than normal visible emissions as determined by previous observations of normal operations.</p> <p>(b) Whenever observed visible emissions are greater than normal, corrective action shall be initiated as soon as practicable but no longer than 24 hours from the time of observation, followed by an additional observation to confirm that emissions have been reduced to normal.</p> <p>(c) The cyclone shall be inspected for proper operation and cleaned at least <u>annually</u>, but more frequently whenever observed visible emissions are greater than normal. If the results of the inspection indicate that cleaning or maintenance is needed, such action shall be initiated as soon as practicable but no longer than 24 hours from the completion of the inspection.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-4-.01</p>

Federally Enforceable Provisos	Regulations
<p><b>5. <u>Recordkeeping and Reporting Requirements</u></b></p> <p>(a) The Permittee shall maintain records, including dates, times, and results of all visual observations; corrective actions taken; and cyclone inspections, cleanings, and emissions related maintenance in a permanent form suitable for inspection for a period of at least five (5) years from the date of generation of each record. The records shall be made available for inspection upon request.</p> <p>(b) The Permittee shall submit a Semiannual Monitoring Report for the Planer Mill Operations to the Air Division, no later than 60 days after the end of each semiannual reporting period (January 1st – June 30th and July 1st – December 31st). The report shall:</p> <ul style="list-style-type: none"> <li>(1) Certify whether the emission monitoring requirements were accomplished as required, and if not, describe the date and reason any required monitoring was not accomplished;</li> <li>(2) Provide the date, time, and duration of any instance that greater than normal emissions were observed from the green sawdust fuel silo, or any instance of the presence any visible emissions from the cyclone exhaust;</li> <li>(3) Provide the nature and date of any corrective actions taken or preventative measures adopted following an observation of greater than normal emissions, or the presence of visible emissions from the cyclone exhaust; and</li> <li>(4) Provide the dates of any physical inspections and/or cleanings of the cyclone performed during the reporting period.</li> </ul>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p>

**Emission Unit Nos. 007 (Continuous Dry Kiln)****Summary Page**

**Description:** 11.4 MBF/hr Continuous Direct-Fired Lumber Dry Kiln (CDK) with a Sawdust-fired 40 MMBtu/hr Burner

**Permitted Operating Schedule:**  $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{7 \text{ Days}}{\text{Week}} \times \frac{52 \text{ Weeks}}{\text{Year}} = \frac{8,760 \text{ Hours}}{\text{Year}}$

**Emission limitations:**

Emission Point No.	Description	Pollutant	Emission limit	Regulation
CDK-4	Kiln openings on ends	TSP	$E=3.59P^{0.62}$ <b>or</b> $E=17.31P^{0.16}$	ADEM Admin. Code r. 335-3-4-.04 (SIP)
			1.6 lb/hr	ADEM Admin. Code r. 335-3-14-.04 (SMS)
		PM10	1.2 lb/hr	ADEM Admin. Code r. 335-3-14-.04 (SMS)
		VOC	4.0 lb/MBF as WPP1	ADEM Admin. Code r. 335-3-11-.06 (BACT)
		SO2	4.0 lb/MMBtu heat input	ADEM Admin. Code r. 335-3-4-.04 (SIP)
		HAP	N/A	40 CFR Part 63 Subpart DDDD

**Emission Unit No. 007 (Continuous Dry Kiln)**  
**Unit Specific Provisos**

Federally Enforceable Provisos	Regulations
<p><b>1. <u>Applicability</u></b></p> <p>(a) This unit is subject to the applicable requirements of ADEM Admin. Code r. 335316.03, "Major Source Operating Permits."</p> <p>(b) This unit is subject to the applicable requirements of 40 CFR Part 63, Subpart DDDD, National Emission Standards for Hazardous Air Pollutants for Plywood and Composite Wood Products, and the applicable requirements of 40 CFR Part 63, Subpart A, General Provisions as provided in Table 10 to Subpart DDDD.</p> <p>(c) This process is subject to synthetic minor source limits to restrict its potential to emit below the significant emission rates for TSP and PM10 established at ADEM Admin. Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration Permitting (PSD))."</p> <p><b>2. <u>Emission Standards</u></b></p> <p>(a) The permittee shall not cause or allow the emission of particulate matter in any one hour from each unit in excess of the amount determined by the following applicable equation:</p> $E = 3.59P^{0.62} \quad (P < 30 \text{ tons per hour}) \quad \text{or}$ $E = 17.31P^{0.16} \quad (P \geq 30 \text{ tons per hour})$ <p>where <math>E</math> = Emissions in pounds per hour  <math>P</math> = Process weight per hour in tons per hour.</p> <p>(b) The permittee shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity shall be determined by 40 CFR Part 60, Appendix A, Method 9.</p> <p>(c) The permittee shall not cause or allow the VOC emissions from the kiln to exceed 4.0 lb/MBF, measured as WPP1 (WPP1= [(VOC as C) x 1.13] + formaldehyde +[0.35 x methanol]).</p> <p>(d) The permittee shall use proper maintenance and operating practices for this unit as recommended by the manufacturer, which include but may not be limited to the following:</p> <p style="padding-left: 40px;">(1) Proper Operating Practices</p> <p style="padding-left: 80px;">i. Operate kilns within an average kiln temperature range of 220-260°F. The average kiln temperature shall be continuously monitored by a dry bulb/ wet bulb temperature sensor.</p>	<p>ADEM Admin. Code r. 335-3-16-.03</p> <p>ADEM Admin. Code r. 335-3-11-.06(81); 40 CFR Part 63, Subpart DDDD</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-4-.04</p> <p>ADEM Admin. Code r. 335-3-4-.01</p> <p>ADEM Admin. Code r. 335-3-11-.06(81)</p> <p>ADEM Admin. Code r. 335-3-11-.06(81)</p>

Federally Enforceable Provisos	Regulations
<ul style="list-style-type: none"> <li>ii. Utilize proper kiln feed rates, which would be between 3 and 9 feet/hour depending upon the dimensions and moisture content of lumber being dried and other variables such as air flow, weather, time of year and target moisture content.</li> <li>iii. Lumber moisture content shall be maintained at greater than 6% to prevent overdrying of lumber</li> </ul> <p>(2) Proper Maintenance Practices</p> <ul style="list-style-type: none"> <li>i. Conduct daily routine maintenance to include visual inspection, cleaning debris from kiln and pusher tracks, grease kiln cart wheels, check pusher system for proper operation, calibrate moisture content equipment and temperature probes, inspect fuel feed and lubricate bearing as needed, maintain control room cleanliness and proper temperature;</li> <li>ii. Conduct weekly routine maintenance to include inspect kiln for damage and repair as needed, check and lubricate man escape door latches, grease fan shaft bearings, clean tracks through kiln, inspect fans, check hydraulic oil levels, check motor mount bolts, check conduit flex;</li> <li>iii. Conduct monthly routine maintenance to include checking for leaks in the kiln pipework, check controller cabinet for dust and debris, check gaskets and refractory for damage, check welded joint, check grates for damage or blocked holes;</li> <li>iv. Conduct quarterly routine maintenance to include checking pusher system for proper operation, clean tracks through kiln and inspect fans, bearings, and shafts, replacing as necessary, and testing of fire suppression systems;</li> <li>v. Conduct semiannual routine maintenance to include checking electrical connections and inspect kiln building and foundation for damage and repair.</li> </ul> <p>(e) The Permittee shall not cause or allow the particulate matter emission rate (TSP) from the kiln to exceed 1.6 lb/hr, as measured in accordance with 40 CFR Part 60, Appendix A, Method 5.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p>

Federally Enforceable Provisos	Regulations
<p>(f) The Permittee shall not cause or allow the particulate matter emission rate (PM<sub>10</sub>) from the kiln exhaust to exceed 1.2 lb/hr, as measured in accordance with 40 CFR Part 60, Appendix A, Method 5.</p> <p>(g) The Permittee shall not cause or allow the particulate matter emission rate (PM<sub>2.5</sub>) from the kiln exhaust to exceed 1.13 lb/hr, as measured in accordance with 40 CFR Part 60, Appendix A, Method 5.</p> <p>(h) The permittee is limited to the use of untreated wood to fire this kiln. Approval must be received from the Air Division prior to burning any other type of fuel.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-16-.05(a)</p>
<p><b>3. <u>Compliance and Performance Test Methods and Procedures</u></b></p> <p>(a) If testing is required, the particulate emission rate shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 5. An alternative test method may be utilized provided prior approval is granted by the Air Division.</p> <p>(b) If testing is required, the volatile organic compound emission rate shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 25A. An alternative test method may be utilized provided prior approval is granted by the Air Division.</p> <p>(c) Any compliance or performance test required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which he has determined to be adequate for indicating whether a specific source is in compliance.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-1-.05</p>
<p><b>4. <u>Emission Monitoring</u></b></p> <p>There are no unit specific emission monitoring requirements applicable to these units.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p>
<p><b>5. <u>Recordkeeping and Reporting Requirements</u></b></p> <p>(a) The Permittee shall maintain records documenting its compliance with the proper operating and maintenance practices.</p> <p>(b) If this kiln should exceed an applicable limit at any time, the Permittee shall notify the Air Division in writing within two (2) working days of determining that the exceedance occurred.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(81)</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>



Federally Enforceable Provisos	Regulations
<p>(c) The Permittee shall maintain records of kiln production, including monthly production and 12-month rolling totals. Within ten (10) days of the end of each calendar month, records of the total throughput for the last calendar month shall be recorded and the rolling 12-month total updated.</p> <p>(d) The Permittee shall retain all required records in a permanent form suitable and readily available for inspection for a period of five (5) years from the date of generation of each record.</p> <p>(e) The Permittee shall submit a Semiannual Monitoring Report for this kiln to the Air Division, no later than 60 days after the end of each semiannual reporting period (January 1st – June 30th and July 1st – December 31st). This report shall include a certification that all proper operating and maintenance practices were accomplished as required during the reporting period, and if not, describe the date and reason any required action was not accomplished.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p>

## Emission Unit No. 008 (Planer Mill with Pneumatic Conveyance System)

### Summary Page

**Description:** Planer Mill with Pneumatic Conveyance System to Quad Pack Cyclones and High Efficiency Cyclones series

**Permitted Operating Schedule:**  $\frac{24 \text{ Hours}}{\text{Day}} \times \frac{7 \text{ Days}}{\text{Week}} \times \frac{52 \text{ Weeks}}{\text{Year}} = \frac{8,760 \text{ Hours}}{\text{Year}}$

**Emission limitations:**

Emission Point No.	Description	Pollutant	Emission limit	Regulation
008A	Quad Pack Cyclone	TSP	$E=3.59P^{0.62}$ <b>or</b> $E=17.31P^{0.16}$	ADEM Admin. Code r. 335-3-4-.04 (SIP)
			0.78 lb/hr	ADEM Admin. Code r. 335-3-14-.04 (SMS)
		PM10	0.78 lb/hr	ADEM Admin. Code r. 335-3-14-.04 (SMS)
		PM2.5	0.78 lb/hr	ADEM Admin. Code r. 335-3-14-.04 (SMS)
		VOC	N/A	N/A
		HAP	N/A	N/A
008B	High Efficiency Cyclone	TSP	$E=3.59P^{0.62}$ <b>or</b> $E=17.31P^{0.16}$	ADEM Admin. Code r. 335-3-4-.04 (SIP)
			0.32 lb/hr	ADEM Admin. Code r. 335-3-14-.04 (SMS)
		PM10	0.32 lb/hr	ADEM Admin. Code r. 335-3-14-.04 (SMS)
		PM2.5	0.32 lb/hr	ADEM Admin. Code r. 335-3-14-.04 (SMS)
		VOC	N/A	N/A
		HAP	N/A	N/A

## Emission Unit No. 008 (Planer Mill Pneumatic Conveyance System)

### Unit Specific Provisos

Federally Enforceable Provisos	Regulations
<b>1. <u>Applicability</u></b>	
(a) This process is subject to the applicable requirements of ADEM Admin. Code r. 335316.03, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-16-.03
(b) This process is subject to synthetic minor source limits to restrict its potential to emit below the significant emission rates for TSP, PM <sub>10</sub> and PM <sub>2.5</sub> established at ADEM Admin. Code r. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas (Prevention of Significant Deterioration Permitting (PSD))."	ADEM Admin. Code r. 335-3-14-.04
<b>2. <u>Emission Standards</u></b>	
<p>(a) The permittee shall not cause or allow the emission of particulate matter in any one hour from each unit in excess of the amount determined by the following applicable equation:</p> $E = 3.59P^{0.62} \quad (P < 30 \text{ tons per hour}) \quad \text{or}$ $E = 17.31P^{0.16} \quad (P \geq 30 \text{ tons per hour})$ <p>where <math>E</math> = Emissions in pounds per hour</p> <p><math>P</math> = Process weight per hour in tons per hour.</p>	ADEM Admin. Code r. 335-3-4-.04(1)
(b) The permittee shall not cause or allow the discharge of more than one 6-minute average opacity greater than 20% in any 60-minute period from this process. At no time shall the permittee cause or allow the discharge of a 6-minute average opacity of particulate emissions greater than 40%.	ADEM Admin. Code r. 335-3-4-.01
(c) The Permittee shall not cause or allow the particulate matter emission rate (TSP) from the Quad Pack Cyclone exhaust to exceed 0.78 lb/hr	ADEM Admin. Code r. 335-3-14-.04
(d) The Permittee shall not cause or allow the particulate matter emission rate (PM <sub>10</sub> ) from the Quad Pack Cyclone exhaust to exceed 0.78 lb/hr	ADEM Admin. Code r. 335-3-14-.04
(e) The Permittee shall not cause or allow the particulate matter emission rate (PM <sub>2.5</sub> ) from the Quad Pack Cyclone exhaust to exceed 0.78 lb/hr	ADEM Admin. Code r. 335-3-14-.04
(f) The Permittee shall not cause or allow the particulate matter emission rate (TSP) from the High Efficiency Cyclone exhaust to exceed 0.32 lb/hr	ADEM Admin. Code r. 335-3-14-.04

Federally Enforceable Provisos	Regulations
<p>(g) The Permittee shall not cause or allow the particulate matter emission rate (PM<sub>10</sub>) from the High Efficiency Cyclone exhaust to exceed 0.32 lb/hr</p> <p>(h) The Permittee shall not cause or allow the particulate matter emission rate (PM<sub>2.5</sub>) from the High Efficiency Cyclone exhaust to exceed 0.32 lb/hr</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>
<p><b>3. <u>Compliance and Performance Test Methods and Procedures</u></b></p> <p>(a) The particulate matter (as TSP) emission rate shall be measured in accordance with 40 CFR Part 60, Appendix A, Method 5. An alternative test method may be utilized provided prior approval is granted by the Air Division.</p> <p>(b) Opacity of stack emissions shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.</p> <p>(c) Any compliance or performance test required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which he has determined to be adequate for indicating whether a specific source is in compliance.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-1-.05</p> <p>ADEM Admin. Code r. 335-3-1-.05</p>
<p><b>4. <u>Emission Monitoring</u></b></p> <p>(a) While the process is operating, someone familiar with the process shall observe the visible emissions from all cyclones associated with this process a minimum of once daily during daylight hours for greater than normal visible emissions as determined by previous observations.</p> <p>(b) Whenever observed emissions are greater than normal, the permittee shall initiate corrective action as soon as practicable but no longer than 24 hours from the time of observation followed by an additional observation to confirm that visible emissions have been reduced to normal.</p> <p>(c) The cyclones shall be physically inspected to assure that the device has been properly maintained and operates as designed at least annually, but more frequently whenever observed visible emissions are greater than normal. If the results of the inspection indicate that cleaning or maintenance is needed, such action shall be initiated within 24 hours of completing the inspection.</p>	<p>ADEM Admin. Code r. 335-3-16-.05</p> <p>ADEM Admin. Code r. 335-3-16-.05</p> <p>ADEM Admin. Code r. 335-3-16-.05</p>

Federally Enforceable Provisos	Regulations
<p><b>5. <u>Recordkeeping and Reporting Requirements</u></b></p> <p>(a) The Permittee shall maintain records, including dates, times, and results of all visual observations; corrective actions taken; and cyclone inspections, cleanings, and emissions related maintenance in a permanent form suitable for inspection for a period of at least five (5) years from the date of generation of each record. The records shall be made available for inspection upon request.</p> <p>(b) The Permittee shall submit a Semiannual Monitoring Report for the Planer Mill Operations to the Air Division, no later than 60 days after the end of each semiannual reporting period (January 1st – June 30th and July 1st – December 31st). The report shall:</p> <p>(i) Certify whether the emission monitoring requirements were accomplished as required, and if not, describe the date and reason any required monitoring was not accomplished;</p> <p>(ii) Provide the date, time, and duration of any instance that greater than normal emissions were observed from the planer mill or planer shavings storage bin, or any instance of the presence any visible emissions from the baghouse exhaust;</p> <p>(iii) Provide the nature and date of any corrective actions taken or preventative measures adopted following an observation of greater than normal emissions, or the presence of visible emissions from the baghouse exhaust; and</p> <p>(iv) Provide the dates of any physical inspections and/or cleanings of the baghouse performed during the reporting period.</p>	<p>ADEM Admin. Code r. 335-3-16-.05</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p>